

## PRECISION POWER WIREWOUND ALUMINUM HOUSED, CHASSIS MOUNT RESISTORS

### FEATURES:

- Chassis mount for heat sink effect
- Epoxy protected windings
- Miniature size
- Noninductive windings
- High stability
- Optimum power to size ratio
- Higher ambients
- Withstand severe environments

### VARIATIONS:

- Special TC on request
- Closer tolerances to .01%
- Special terminals
- Flexible leads

### GENERAL

#### SPECIFICATIONS:

Standard tolerances:

±0.1 to 5%

Dielectric strength:

1000 VAC TM-5, TM-10, TM-25

2000 VAC TM-50,

3000 VAC TM-100, TM-250

Insulation resistance:

10000 megohms minimum

Temperature coefficients:

10Ω and above: ±20ppm

1Ω to 9.9Ω: ±50ppm

Below 1Ω: ±90ppm

Terminal strength:

5lb. pull test TM-5, TM-10

10lb. pull test all others

Standard terminals:

Tinned copper, flattened and

pierced TM-5 to TM-50

Threaded on TM-100 and TM-250

Housing: Anodized aluminum

Core: Steatite or alumina

Winding: Copper-nickel or nickel-chrome alloy as required by resistance

Sealant: High-temperature silicone

Power rating: Based on;

(a) full power operation at 25°C

(b) 1% maximum Δ R in 1000 hour load life

(c) maximum hotspot 275°C

(d) mounting on proper heat sink

Recommended heat sink:

Aluminum chassis;

6 x 4 x 2 x .040 TM-5, TM-10

7 x 5 x 2 x .040 TM-25

12 x 12 x .050 TM-50

12 x 12 x .125 TM-100, TM-250



### ENVIRONMENTAL SPECIFICATIONS:

TEST	MIL-R-18546
Load life	± (1% + 0.05Ω) Δ R
Moisture resistance	± (1% + 0.05Ω) Δ R
Resistance temperature Characteristic	±50ppm to 2000Ω ±30ppm over 2000Ω
Thermal shock	± (.5% + 0.05Ω) Δ R
Momentary overload	± (.5% + 0.05Ω) Δ R
Dielectric	± (.2% + 0.05Ω) Δ R
High temperature storage	± (.5% + 0.05Ω) Δ R
Shock	± (.2% + 0.05Ω) Δ R
Vibration	± (.2% + 0.05Ω) Δ R
Terminal strength	± (.2% + 0.05Ω) Δ R

TEPRO TYPE	POWER RATINGS/WATTS		RESISTANCE RANGE OHMS	
	TEPRO	MIL.	TEPRO MIN.	TYPE MAX.
TM 5	7.5	5	0.005	20K
TM 10	12.5	10	0.005	40K
TM 25	25.0	20	0.005	90K
TM 50	50.0	30	0.005	250K
TM 100	100.0	75	0.010	500K
TM 250	250.0	120	0.010	700K

Notes:

For noninductive windings add "NI" to type. Maximum resistance 1/3 that shown. All data and dimensions subject to change without notice.

### DERATING:

Operation in high ambients or on reduced chassis areas requires derating in accordance with the accompanying curve. TM-5 and TM-10 types may be operated in ambients to 75°C without derating. (Curve A)

